

AMENDMENTS TO THE CLAIMS

1. A method for concurrently providing a first service between a mobile station and a mobile switching center (MSC) and a second service between the mobile station and a packet data service network (PDSN) in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

forming, in the base station, a signaling link for the first service between the base station and the MSC;

receiving, in the base station, a service request signal for the second service from the PDSN while providing the first service;

upon receipt of the service request signal for the second service, sending, from the base station, a resource assignment request for the second service to the MSC through the formed signaling link, wherein the second service is a voice service or a packet service; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link, wherein the MSC determines whether the newly requested second service is identical to the presently connected first service by comparing a service option.

2. The method as claimed in claim 1, further comprising the step of making a service negotiation for addition of the second service between the base station and the mobile station in response to the resource assignment approval signal.

3. A method for concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

upon receipt of a service request for the first service from the MSC to the mobile station while providing the second service, receiving, by the base station, a concurrent service request based on the service request of the first service from the MSC through a previously or newly formed signaling link between the base station and the MSC, wherein the second service is a voice service or a packet service;

in response to the concurrent service request, sending in the base station a resource assignment request for the first service to the MSC through the formed signaling link; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link, wherein the MSC determines whether the newly requested second service is identical to the presently connected first service by comparing a service option.

4. The method as claimed in claim 3, further comprising the step of making a service negotiation for addition of the first service between the base station and the mobile station in response to the resource assignment approval signal.

5. A method for concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

receiving in the base station an origination request for the second service from the mobile station while providing the first service;

in response to the origination request, sending from the base station to the MSC a resource assignment request for origination of a new service through a signaling link formed to provide the first service between the base station and the MSC, wherein the second service is a voice service or a packet service; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link, wherein the MSC determines whether the newly requested second service is identical to the presently connected first service by comparing a service option.

6. The method as claimed in claim 5, further comprising the step of making a service negotiation for addition of the second service between the base station and the mobile station in response to the resource assignment approval signal.

7. A method for concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

receiving in the base station an origination request for the first service from the mobile station while providing the second service;

in response to the origination request, forming in the base station a signaling link between the base station and the MSC;

sending in the base station a resource assignment request for the first service to the MSC through the formed signaling link, wherein the second service is a voice service or a packet service; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link, wherein the MSC determines whether the newly requested second service is identical to the presently connected first service by comparing a service option.

8. The method as claimed in claim 7, further comprising the step of making a service negotiation for addition of the first service between the base station and the mobile station in response to the resource assignment approval signal.